



Approval #

970074-U (Replaces 920067-U)

Safety & Buildings Division  
201 East Washington Avenue  
P.O. Box 7969  
Madison, WI 53707

## Wisconsin Material Approval

Material

Fire-Shield and Tefcon Flexible Connectors

Manufacturer

Hose Master, Inc.  
1233 East 222nd Street  
Euclid, Ohio 44117

---

### SCOPE OF EVALUATION

Fire-Shield and Tefcon flexible connectors for use with flammable liquids, as manufactured by Hose Master, Inc., have been evaluated for conformance with **section ILHR 10.51 (2)**, of the current edition of the Wisconsin Administrative Flammable and Combustible Liquids Code.

### DESCRIPTION AND USE

Fire-Shield connectors consist of a stainless steel flexible tube wrapped with a stainless steel braid. They are used underground and in unburied underground locations such as in connections to submersible pumps in manways or shutoff valves at the base of dispensers. These connectors are also used in aboveground piping systems.

Tefcon connectors consist of a Teflon<sup>®</sup> tube wrapped with a stainless steel supporting braid. They are intended for underground use only and cannot be used in unburied sump locations or in aboveground piping systems.

## TESTS AND RESULTS

Underwriters Laboratories, Inc., has tested and listed the Fire-Shield and Tefcon connectors.

## LIMITATIONS OF APPROVAL

Fire-Shield connectors are approved for underground use (buried) and for use in unburied underground locations such as connection to submersible pumps in manways or shutoff valves at the base of dispensers. These connectors are also approved for use in aboveground piping systems that are protected from physical damage.

Tefcon connectors are approved for underground (buried) use only.

The overall length of each individual connector shall not exceed 8 feet.

The maximum working pressure is 50 psi for the Fire-Shield models FSMS, FSFS, FSUU, FSS2WE, FSTMM, and FSSSE. The maximum working pressure is 150 psi for the Fire-Shield models FSMM, FSMF, and FSM2M, and for the Tefcon models TCMM, TCMF, TCMS, and TCFS.

For metallic connectors in contact with soil, a corrosion protection system shall be installed that meets one of the requirements of **s. ILHR 10.51 (2) (a) through (d)**. The sacrificial anode system currently provided by Hose Master, Inc., meets the requirements of s. ILHR 10.51 (2)(b)4.d.

The corrosion protection system shall be installed and maintained in accordance **with s. ILHR 10.55**.

This approval will be valid through December 31, 2002, unless manufacturing modifications are made to the products or a re-examination is deemed necessary by the Department. The Wisconsin Material Approval Number must be provided when plans that include these products are submitted for review.

## DISCLAIMER

The Department is in no way endorsing or advertising these products. This approval addresses only the specified applications for the products and does not waive any code requirement unless specified herein.

Reviewed by: \_\_\_\_\_

Approval Date: \_\_\_\_\_ By: \_\_\_\_\_  
Sam Rockweiler, P.E.  
Code Development Section  
Program Development Bureau